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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 81044309/202-0849 09/19/2003 Jae Doo Chung 10/605,285 **EXAMINER** 12/01/2004 28395 BROOKS KUSHMAN P.C./FGTL ALI, HYDER 1000 TOWN CENTER ART UNIT PAPER NUMBER 22ND FLOOR SOUTHFIELD, MI 48075-1238 3747

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)
	10/605,285	CHUNG ET AL.
	Examiner	Art Unit
	HYDER ALI	3747
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on		
2a) This action is FINAL . 2b) This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1-3,5,8-10,12,16-18,20 and 23</u> is/are rejected.		
7) Claim(s) <u>4,6,7,11,13-15,19,21 and 22</u> is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10)⊠ The drawing(s) filed on <u>19 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
TT) The battroi declaration is objected to by the Ex	diffilier. Note the attached Office	Action of form 1 10-102.
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
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Attachment(s)	🗂	(570.440)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>9/19/03</u>. 		Patent Application (PTO-152)

Application/Control Number: 10/605,285

Art Unit: 3747

DETAILED ACTION

Inventorship

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3,5,8-10,12,16-18,20 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Dosdall et al (US 5,117,681). Dosdall et al discloses a method for controlling an engine in a vehicle having a starter motor operatively connected to the engine, the method comprising: a controller 30 cuts off the flow of fuel to the engine; the controller begin an error measurement routine col. 4, lines 52-56; in step 37, correction

Application/Control Number: 10/605,285

Art Unit: 3747

factors are calculated col. 5, lines 37-39; smooth engine rotation obtained by externally driving the engine, such as with the starter motor with fuel cutoff col. 5, lines 4-6.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3,5,8-10,12,16-18,20 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Downs et al (US 6,453,864) in view of Dosdall et al (US 5,117,681) and Peters et al (US 6,425,365).

Downs et al discloses a method for controlling an engine in a vehicle having a motor operatively connected to the engine the method comprising: means for sensing the crankshaft rotational orientation is provided col. 4, lines 13-16; employing the motor to spin the engine after fuel to the engine is discontinued.

Downs et al does not disclose determination of the engine position sensor correction factor; determining when an engine shutdown is requested. However, Peters et al discloses determining when an engine shutdown is requested. Dosdall et al discloses determination of the engine position sensor correction factor. It would have been obvious to a person having ordinary skill in the art to modify Downs et al by

Application/Control Number: 10/605,285 Page 4

Art Unit: 3747

employing engine shut down and correction factor determination features in order to

reduce or eliminate the position measurement inaccuracies.

Allowable Subject Matter

Claims 4,6,7,11,13-15, 19,21 and 22 are objected to as being dependent upon a

rejected base claim, but would be allowable if rewritten in independent form including all

of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. The reference by Boggs et al discloses controlled engine

shutdown for a hybrid electric vehicle.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to HYDER ALI whose telephone number is (571) 272-4836. The examiner can normally be

reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

HENRY YUEN can be reached on (571) 272-4856.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

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Tony M. Argenbright Primary Examiner

Art Int 3747